Creating and Storing Gel Images for PISh

<u>Procedure</u>

- Save gel picture as *.tif file using the Kodak digital imaging software and store in a file accessible from all computers.
- In Adobe Photoshop, open a new file and name it using the MRA item number followed by the date of the procedure.

    Example: For G3 gDNA prepared 12/29/99, file would be named:

    MRA-142-29Dec99.

    For PCR for DNA above, file would be named:

    MRA-142-29Dec99-PCR (Even if PCR was done two days later.)

    For G3 stock authentication, file should be named with the date when authentication was performed.

- Format image size so width is 3.4 inches and height is 3.0 inches.
- Format resolution to 600 dpi.
- Click OK, then minimize window.
- Open saved gel file, then click Image>Image size.
- Reformat print size so that the image will fit nicely into a canvas of 3.4 in width by 3.0 in height. Remember you will need to add descriptive text, so plan accordingly. Height of gel picture should be no more than 2.0 inches. If the gel file is for gDNA, make image 1.6 in wide and constrain proportions. Modify the width if image height exceeds 2.0 inches.
- Format resolution to 600 dpi.
- If image is for gDNA, open gel file containing PCR authentication of DNA and reformat size and resolution as above.
- Click Select>All; then Copy. Minimize image.
- Open empty canvas and paste copied image. For gDNA repeat copy and paste second gel picture.
- Using Move tool arrange picture(s) on canvas so that they are even and centered.

- Using Type tool, add text description to the images. Include description of sample, amount of DNA run out, amount of DNA used in PCR, total amount of PCR rxn run out, percent gel run, positive and negative controls.
  Text font should be Arial Regular 8pt. Text color should be black. Gel lanes should be marked as A, B, C, etc. This font can be white if gel background is too dark for black letters.
- Align text with pictures.
- Save image AS IS in MR4 Images CD-RW. This file will be a *.psd file created by Adobe Photoshop and contains the multiple layers that can be edited.
- Click File> Save a Copy and select *.jpg file type. Name the file the same as the *.psd file (MRA#-date.jpg). Save this image in the MR4 images directory in SQL server.
  Save DNA images in the Quality Control Folder.
  Save Stock authentication images in the StockAuth folder.
  Only *.jpg images should be saved in this directory. These are the final images to be used by the PISh.
- Close the image.
- Exit Adobe Photoshop. DO NOT SAVE CHANGES TO ANY OF THE IMAGES.
- Open Stocks Database and enter image name in appropriate form.

Notes